

August 2004



## *P2 Success Stories*

### **Parts Washer Program**



Installation-owned Clarus parts washers use recyclable solvent that is safer to use for the soldiers and causes less damage to the environment. The used solvent is sent to our on post distillation center and cleaned for further use. Since the beginning of the parts washer program, Fort Hood has saved \$330,000 by reusing the distilled solvent.

### **Purge Facility**

The purge facility cleans fuel tanker trucks in a efficient and time saving manner. This facility washes out fuel tanker trucks in a closed-loop system that recycles the water and is designed to not only conserve water but also save work time for the soldiers. Since its inception, Fort Hood has saved over 1.1 Million gallons of water and countless Soldier man-hours.



### **Aerosol Can Crusher**



Fort Hood has tested a prototype system for fast and safe processing of aerosol cans. This system removes all remaining contents without any emissions to the environment, before crushing the cans down into 1-inch disks. The entire process is automatic and saves man-hours without an increase in air pollution. The machine has been reviewed for use by the Texas Commission on Environmental Quality.

### **Mobile Kitchen Trail (MKT) Wash Bay**

This area allows Soldiers to clean kitchen units used in the field at a centralized point. Water and scraps are not washed into motor pool oil-water separators or sanitary sewers, causing clogs and overflows. All water from the MKT is diverted to a central point for continued use



#### **P2 Projects**

- Parts Washer
- Solvent Distillation
- Purge Facility
- MKT Wash Bay
- Water Pretreatment Center
- JP8/Oil Recycle Center
- Household Hazardous Waste Collection
- Battery Discharge/Recharge Point
- Porous Paving
- Agriboard Construction
- Compost
- Waterless urinals

*"If the People will lead, the leaders will follow"*

*-Ray Anderson, Author, Mid-Course Correction*

## *Present & Future Projects*

### **Water Pretreatment System**

In the future this project will take all the waste water from the Purge facility, the MKT as well as water extracted from the JP8 and oil recycling operations and clean it to non potable standards. It will remove all contaminants such as food waste, POL products, heavy metals and any other harmful constituent and allow the water to be used in the tactical wash facility that cleans Fort Hood heavy equipment.



### **Porous Paving**

Fort Hood is testing the use of porous paving for stormwater control. Currently we are building a 16000 Sq Ft parking lot made out of Eco-creto™. This product allows water to filter through the pavement and recharge ground water tables, reducing runoff, erosion and silt build-up in the Installation's lakes and streams.

### **Agriboard**

At the time of this publication, DPW Environmental has built 1 Agriboard building and has plans for another. Agriboard is a structural insulated panel building system using compressed wheat straw as an insulation material. This is a sustainable product that is stronger and more energy efficient than current building practices and is made from rapidly renewable resources. R factors can be up to twice that of standard stud construction, keeping houses cooler in the summer and warmer in the winter while using less electricity. We are currently looking into the possibility of building over 200 on-post residential houses with Agriboard.



### **Waterless Urinals**

DPW Environmental has installed 5 waterless urinals on the Installation. Each unit saves up to 40,000 Gallons of water per year and cuts down on maintenance, cleaning and plumbing costs.



### **Household Hazardous Waste**

In July 2004, Fort Hood began a Household Hazardous Waste (HHW) Collection and reissue program. Soldiers and their families and DoD civilians will be able to dispose of any HHW in a safe easy manner. Our collection point will take in cleaners, pesticides, paints, etc, from households and reissue them to other families as needed or make sure they are disposed of in an environmentally safe manner.

**Fort Hood is always  
looking for new and  
innovative ideas to  
reduce pollution.  
Thinking outside the box  
is what we live by  
everyday.**

**Protecting the  
environment while  
making life easier for the  
soldier is what we strive  
for at all times.**

Randy Doyle, Pollution Prevention Program Manager

E-mail: [Randy.Doyle@hood.army.mil](mailto:Randy.Doyle@hood.army.mil) Phone: 254-287-1099